

Sheet 4

- (1) Write an assembly program to get 8 bit data from P0 and send it to P1, P2, and P3.
- (2) Write an assembly program to continuously get the status of 8 switches connected to port 0 of 8051 microcontroller and then output the status of the switches on 8 leds connected to port 2. Wait 0.1 sec before sending the data switches to the leds.
- (3) Write an assembly program to continuously toggle all bits of P1, and P2. Use 0.2 sec delay.
- (4) Write an assembly program to continuously get the status of 8 switches connected to port 2 of 8051 microcontroller every 0.1 sec. Stop this process after getting the data 8 times. Store this data in memory starting from the address LOC.
- (5) Write an assembly program to toggle P2.1 and P2.4 continuously without disturbing the rest of the bits.
- (6) Write an assembly to monitor bit P1.4. When it is high, send 50H to P3.
- (7) Write an assembly to monitor bit P2.4. When it is high, send 90H to P3. If it is low, send 60H to P1.
- (8) Write an assembly to monitor bit P2.4. When it is high, make a low to high to low pulse on P1.3.
- (9) Write an assembly to get the status of P2.6 and P2.5 and put them on P1.6 and P.5 respectively.